



SPYWOLF

Security Audit Report



Completed on
May 24, 2023

@SPYWOLFNETWORK



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SPYWOLF.CO





OVERVIEW

This audit has been prepared for **PEPE Yield** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

”





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PEPE Yield



PROJECT DESCRIPTION

According to their whitepaper:

Pepe Yield provides a decentralized financial asset which rewards users with a sustainable fixed compound interest model through use of its unique SAP protocol.

The Pepe Yield Auto-Staking Protocol (PAP for short) is a financial protocol that makes staking easier, more efficient and awards \$PEPY token holders the highest stable returns in crypto.

Release Date: Presale starts in May, 2023

Category: Staking



CONTRACT INFO

Token Name
Pepe Yield

Symbol
PEPY

Contract Address

0x7cBFa78a082Bb4810D3601d761b8e260c13F6AD9

Network

Binance Smart Chain

Language

Solidity

Deployment Date

May 24, 2023

Verified?

Yes

Total Supply

325,000

Status

Not launched

TAXES

Buy Tax

4%

Sell Tax

5%

*Taxes can be changed in future



Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



TOKEN TRANSFERS STATS

Transfer Count	3
Uniq Senders	2
Uniq Receivers	3
Total Amount	650000 PEPY
Median Transfer Amount	296900 PEPY
Average Transfer Amount	216666.6666666667 PEPY
First transfer date	2023-05-24
Last transfer date	2023-05-24
Days token transferred	1

SMART CONTRACT STATS

Calls Count	9
External calls	5
Internal calls	4
Transactions count	6
Uniq Callers	3
Days contract called	1
Last transaction time	2023-05-24 01:52:32 UTC
Created	2023-05-24 01:32:35 UTC
Create TX	0xab0b4604db540413aca0bacbbdbddc96908f316b93549cbd6b994ff2671621e5
Creator	0x06be72545953bfcba236146a88740e1d7a3f8155



VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



FOUND THREATS

⚠ High Risk

Owner can blacklist address, making it impossible to sell. If liquidity pair is blacklisted, it will become impossible to sell for all users.

```
function setBotBlacklist(address _botAddress, bool _flag) external onlyOwner {
    require(isContract(_botAddress), "only contract address, not allowed exteranlly owned account");
    blacklist[_botAddress] = _flag;
}

function _transferFrom(
    address sender,
    address recipient,
    uint256 amount
) internal returns (bool) {
    require(!blacklist[sender] && !blacklist[recipient], "in_blacklist");
    .....
}
```

- Recommendation:
 - Considered as good bot protection practice is blacklisting addresses to be automated for short period after initial liquidity add.



Informational

This is rebase token with increasing supply up to 3,250,000,000. Increasing supply over time may lead to token's price inflation.

```
uint256 private constant MAX_SUPPLY = 325 * 10**7 * 10**DECIMALS;
uint256 private constant INITIAL_FRAGMENTS_SUPPLY = 325 * 10**3 * 10**DECIMALS;

function _transferFrom(address sender, address recipient, uint256 amount) internal returns (bool) {
    .....
    if (shouldRebase()) {
        rebase();
    }
    .....
}

function shouldRebase() internal view returns (bool) {
    return
        _autoRebase &&
        (_totalSupply < MAX_SUPPLY) &&
        msg.sender != pair &&
        !inSwap &&
        block.timestamp >= (_lastRebasedTime + 15 minutes);
}

function rebase() internal {

    if ( inSwap ) return;
    uint256 rebaseRate;
    uint256 deltaTimeFromInit = block.timestamp - _initRebaseStartTime;
    uint256 deltaTime = block.timestamp - _lastRebasedTime;
    uint256 times = deltaTime.div(15 minutes);
    uint256 epoch = times.mul(15);

    if (deltaTimeFromInit < (365 days)) {
        rebaseRate = 2355;
    } else if (deltaTimeFromInit >= (365 days)) {
        rebaseRate = 211;
    } else if (deltaTimeFromInit >= ((15 * 365 days) / 10)) {
        rebaseRate = 14;
    } else if (deltaTimeFromInit >= (7 * 365 days)) {
        rebaseRate = 2;
    }

    for (uint256 i = 0; i < times; i++) {
        _totalSupply = _totalSupply
            .mul((10**RATE_DECIMALS).add(rebaseRate))
            .div(10**RATE_DECIMALS);
    }

    _gonsPerFragment = TOTAL_GONS.div(_totalSupply);
    _lastRebasedTime = _lastRebasedTime.add(times.mul(15 minutes));

    pairContract.sync();

    emit LogRebase(epoch, _totalSupply);
}
```



Informational

Owner can manual swap accumulated tokens in the contract.

```
function withdrawAllToTreasury() external swapping onlyOwner {  
  
    uint256 amountToSwap = _gonBalances[address(this)].div(_gonsPerFragment);  
    require( amountToSwap > 0, "There is no PEPY token deposited in token contract");  
    address[] memory path = new address[](2);  
    path[0] = address(this);  
    path[1] = router.WETH();  
    router.swapExactTokensForETHSupportingFeeOnTransferTokens(  
        amountToSwap,  
        0,  
        path,  
        treasuryReceiver,  
        block.timestamp  
    );  
}
```

Owner can change fees address receivers.

```
function setFeeReceivers(  
    address _autoLiquidityReceiver,  
    address _treasuryReceiver,  
    address _yieldInsuranceFundReceiver,  
    address _firePit  
) external onlyOwner {  
    autoLiquidityReceiver = _autoLiquidityReceiver;  
    treasuryReceiver = _treasuryReceiver;  
    yieldInsuranceFundReceiver = _yieldInsuranceFundReceiver;  
    firePit = _firePit;  
}
```



Informational

Owner can exclude address from fees.

When address is excluded from fees, the user will receive the whole amount of the bought, sold and/or transferred tokens.

```
function setWhitelist(address _addr) external onlyOwner {  
    _isFeeExempt[_addr] = true;  
}
```

Owner can turn rebase on/off.

```
function setAutoRebase(bool _flag) external onlyOwner {  
    if (_flag) {  
        _autoRebase = _flag;  
        _lastRebasedTime = block.timestamp;  
    } else {  
        _autoRebase = _flag;  
    }  
}
```



RECOMMENDATIONS FOR

GOOD PRACTICES

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

PEPE Yield

GOOD PRACTICES FOUND

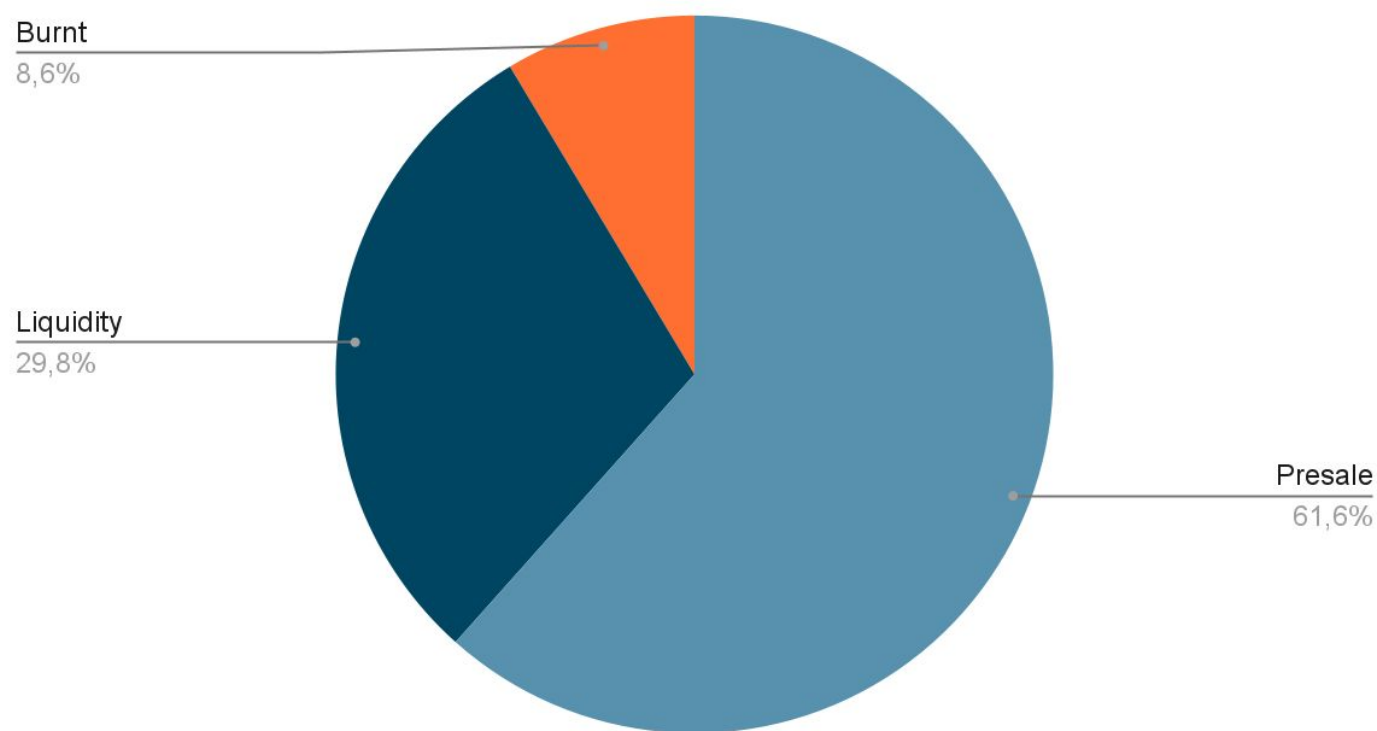
- ✓ The owner cannot set a transaction limit
- ✓ The smart contract utilizes "SafeMath" to prevent overflows



The following tokenomics are based on the Pinksale's presale page:

- 61.6% - Presale
- 8.6% - Burnt
- 29.8% - Liquidity

Tokens distribution



TOKENOMICS



THE TEAM

! The team is anonymous

KYC INFORMATION

! No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.





WEBSITE

Website URL

<https://pepeyield.com/>

Domain Registry

<https://www.registrar.eu>

Domain Expiration

2024-05-23

Technical SEO Test

Passed

Security Test

Passed. SSL certificate present

Design

Single page design with appropriate color scheme and graphics.

Content

The information helps new investors understand what the product does right away. No grammar mistakes found.

Whitepaper

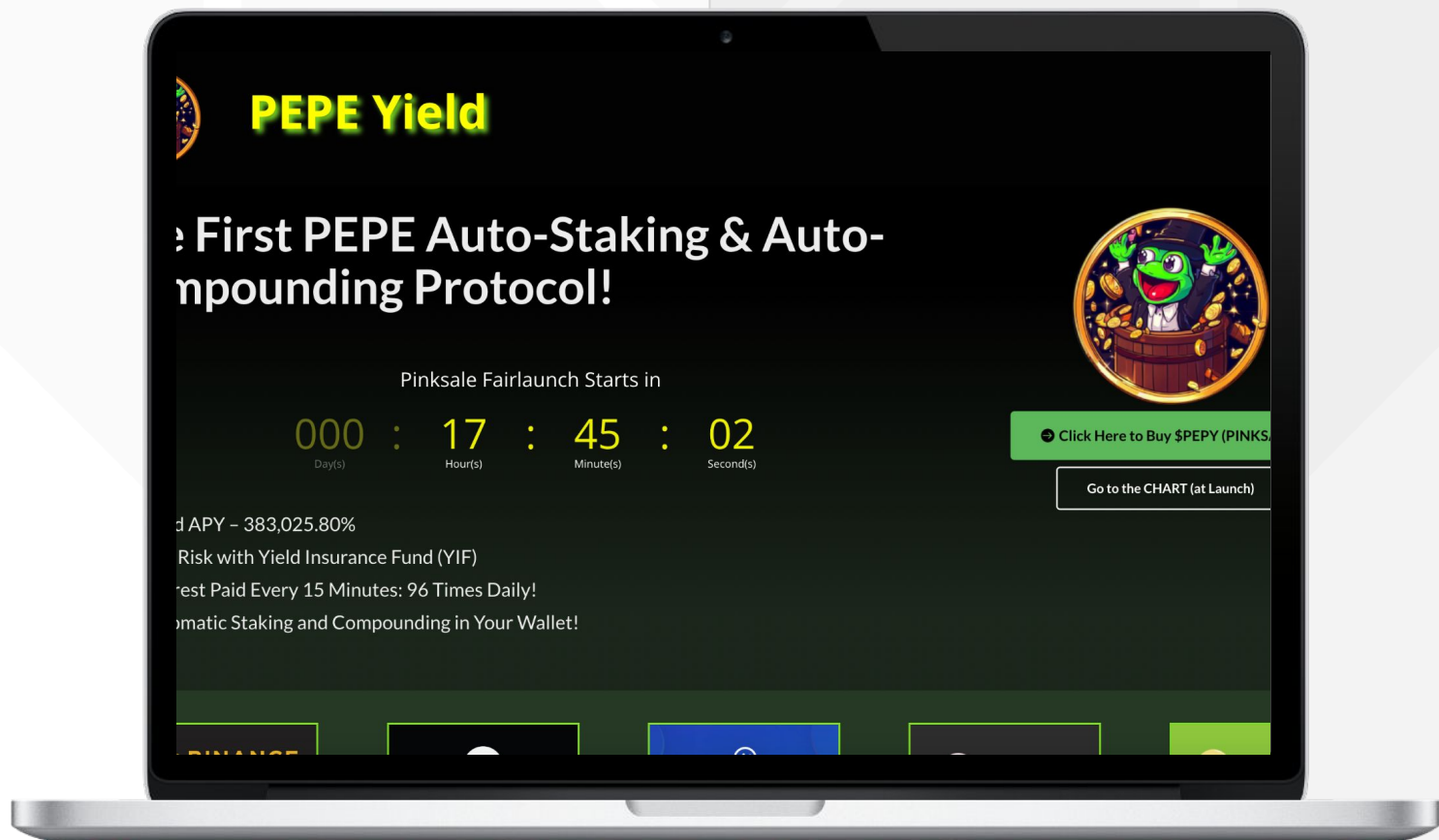
Well written, explanatory.

Roadmap

Yes, goals set without time frames.

Mobile-friendly?

Yes



pepeyield.com

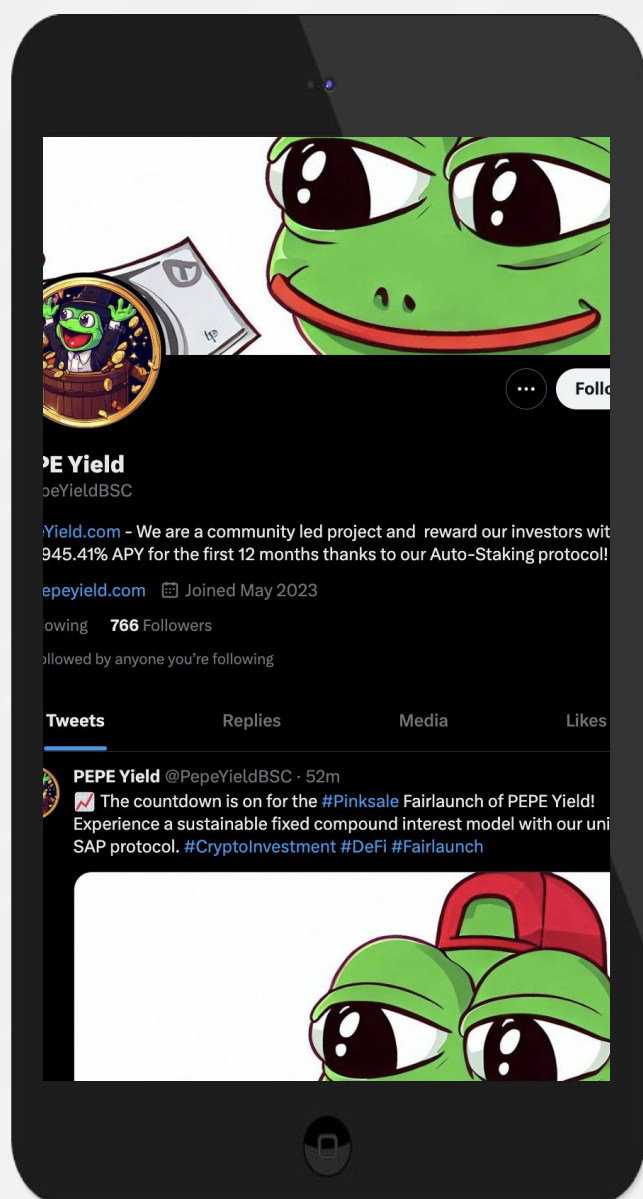


SOCIAL MEDIA & ONLINE PRESENCE



ANALYSIS

Project's social media pages are active



Twitter

@pepeyieldbsc

- 290 followers
- 2 total posts
- New account



Discord

- Not available



Telegram

@pepeyield

- 159 members
- Active users
- Active mods



Medium

- Not available



SPYWOLF

CRYPTO SECURITY

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ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.